



Material Safety Data Sheet

1. Identification of the substance/mixture and of the supplier

Product name Recombinant human IFN-gamma protein

Manufacturer: Qkine Ltd

1 Murdoch House, Garlic Row, Cambridge, CB5 8HW, United Kingdom

Phone: +44 (0)1223 491486 Email: support@qkine.com

Country of origin United Kingdom

Emergency telephone number In an emergency call **999** or **112** (or local emergency number)

111 - medical advice in England, Scotland & Wales (NHS Wales 0845 46 47) 18001 111 on a textphone or www.interpreternow.co.uk/nhs111 for NHS

British Sign Language (BSL) interpreter service

2. Hazards identification

Classification of substance or mixture
Not a hazardous substance or mixture

GHS classification Does not meet the classification criteria of the EC Directives 67/548/EEC,

1999/45/EC or 1272/2008

GHS labelling Does not need to be labelled in accordance with EC directives or respective

national laws.

Special hazards None

3. Composition/information on ingredients

| Ingredie | pathogen | rified recombinant protein originally produced in <i>E.coli</i> (non- nic laboratory strain). Contains no material of animal or human of produced in baculovirus. For research use only. |
|----------|----------|--|
| | of 1% or | uct does not contain any hazardous substances at concentrations greater. This product is not known to contain carcinogens at a ation of 0.1% or greater. No MSDS is required. |

4. First aid measures

Eye contact: May cause eye irritation. Immediately flush eyes with plenty of water, then

remove any contact lenses and continue to flush eyes with water for 15 minutes. Seek immediate medical attention if irritation persists

Skin contact: May cause skin irritation. Immediately wash off with plenty of soap and

water.

Inhalation: No recognised inhalation hazard. If inhaled, remove to fresh air. If

breathing becomes difficult, seek immediate medical attention.

Ingestion: No recognised ingestion hazard. If ingested, rinse out mouth with plenty of

water.

5. Fire-fighting measures

Suitable extinguishing media Use extinguishing media appropriate to the surrounding environment

Specific hazards arising from substance No specific hazards arising from substance

Protective equipment No special precautions required





6. Accidental release measures

| Personal precautions, protective equipment and emergency procedures | Wear gloves and appropriate eye protection. Prevent inhalation of dust. |
|---|--|
| Environmental precautions | Do not allow product to enter the drains |
| Methods & material for containment and cleaning up | Prevent further leakage or spillage if safe to do so. Use absorbent material to soak up the spillage and dispose of in accordance with applicable laws, environmental legislation and good laboratory practices. |

7. Handling and storage

| Handling | Avoid inhalation. Avoid contact with eyes, skin, and clothing. |
|------------------------|--|
| Storage | Keep vial tightly closed. Store at -80 °C until use. |
| Additional information | See certificate of analysis for further information on handling and storage. |

8. Exposure controls / personal protection

| Control parameters | Contains no substances with occupational exposure limit values. |
|----------------------|--|
| Engineering controls | Use in a laboratory fume hood |
| Eye | Wear appropriate eye protection. |
| Skin | Handle with gloves. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. |
| Inhalation | Respiratory equipment is not required. |

9. Physical and chemical properties & safety characteristics

| Physical state | Lyophilized |
|------------------------------|-------------------|
| Colour | White |
| Odour | None |
| Melting point/freezing point | No data available |
| Boiling point | No data available |
| Flammability | No data available |
| Explosion limits | No data available |
| Flash point | No data available |
| Autoignition temperature | No data available |
| Decomposition temperature | No data available |
| рН | No data available |
| Viscosity | No data available |
| Solubility in water | No data available |
| Partition co-efficient | No data available |
| Vapour pressure | No data available |
| Density | No data available |
| Relative vapour density | No data available |
| Particle characteristics | No data available |





10. Stability and reactivity

Reactivity No data available

Chemical stability Stable under normal use conditions

Conditions to avoid None Incompatible materials None

Hazardous decomposition products

None under normal use conditions

11. Toxicological information

| Information on toxicological effects | Does not present an acute toxicity hazard based on known or supplied information | |
|--------------------------------------|--|--|
| Information on toxicological effects | , | |

12. Ecological information

| Toxicity | Under normal use and conditions, this product is not expected to have an adverse environmental impact |
|------------------------------------|---|
| Persistence and degradability | No data available |
| Bioaccumulative potential | No data available |
| Mobility in soil | No data available |
| Results of PBT and vPvB assessment | No data available |
| Other adverse effects | No data available |

13. Disposal considerations

| Waste treatment methods | Dispose of in accordance with applicable laws, environmental legislation |
|-------------------------|--|
| | and good laboratory practices. |

14. Transport information

| UN number | Not regulated |
|------------------------------|---------------|
| UN proper shipping name | Not regulated |
| Transport hazard class(es) | Not regulated |
| Packing group | Not regulated |
| Environmental hazards | Not regulated |
| Special precautions for user | Not regulated |
| Transport in bulk | Not regulated |

15. Regulatory information

| Safety, health and environmental regulations/legislation specific for the substance or mixture | Not applicable |
|--|----------------|
| Chemical safety assessment | Not applicable |



Qkine, 1 Murdoch House, Cambridge, CB5 8HW www.qkine.com | +44 (0) 1223 491 486 | +1-866 877 2185 Qkine products are for research use only and not for diagnostic or therapeutic use.

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16. Other information

Qkine products are not for use in humans and are not for diagnostic or therapeutic use. Customers agree to comply with the provisions of applicable international and local statutes, rules, regulations, ordinances and orders when using Qkine products.

Qkine products are for internal research purposes only and not for resale or transfer in any form (including as part of a kit) to a third party unless agreed with Qkine in writing.

Qkine is not responsible for patent infringement or other violations which may occur with the use of these products.

